

GEOPHYSICAL INVERSION RESEARCHER

Who we are:

At Dias, our purpose is to create new technologies to image the earth and locate the resources that the world needs. We are passionate about technology, but nothing is more important than keeping our people safe and healthy.

Dias is a world leader in deploying solutions to help explore, map, and protect the subsurface. We operate globally from our home in Saskatoon with offices in Vancouver, Toronto, Mexico, and Chile.

Location:

Preferred location is Saskatoon, but Vancouver or Toronto applicants will be considered. This is not a remote position but could have some hybrid options.

Description:

Dias has unique data acquisition technologies which utilize advanced inversion algorithms to interpret. The successful application will have graduate level experience in creating inversion solutions for complex geophysical problems, in applying parallel computing to accelerate the performance of inversions and in writing software to make the inversion codes available to users. Familiarity with 3D DCIP, MT, Magnetic and EM inversions is expected.

Primary Responsibilities:

- Integrate existing inversion codes into Dias' platform
- Design systems for parallelizing inversion routines for use on high performance clusters
- Able and willing to travel locally and internationally
- Develop new inversion codes for emerging geophysical data types
- Contribute to open-source projects that align with company goals
- Development of software tools for inversion configuration & visualization

Prerequisites:

- MSc. or PhD. in Geophysics or other technical field
- Sound knowledge in geophysical data inversion methods
- Knowledge of geophysical methods for mineral exploration
- Experience working with a variety of inversion codes (ie. SimPEG, UBC, etc).
- Ability to create and modify inversion algorithms such as SimPEG
- Familiarity with software version control systems such as GitHub
- Strong Python programming experience is required
- C/C++ programming experience is an asset
- Eligible to work in Canada
- Sound computer skills in Windows and Linux
- Parallel computing experience is an asset

Skills

- Ability to multitask and efficiently manage multiple projects at a time
- Proficient computer and technology related skills
- Ability to lead, manage and train employees
- Track record of publications in academic journals
- Effective written and verbal communication skills
- Ability to work under pressure
- Work well in a team

What is in it for you:

- This is a Full-time permanent position
- Benefits Package - including comprehensive Health and Dental coverage
- Life insurance and Disability insurance
- Company social events - beverages & snacks all day, and free lunch every Friday
- Minimum of 3 weeks paid vacation time per year

HOW TO APPLY

Send resume & cover letter to:

careers@diasgeo.com

Subject: Geophysical Inversion Researcher

Dias Geophysical Limited

2131 Airport Dr. Saskatoon SK S7L 7E1 306-700-6442



www.diasgeo.com

<https://www.linkedin.com/company/dias-geophysical/>